*Practical course focusing on all aspects of dam removal...*

**Succeeding with a Dam Removal Project**

**October 16–18, 2006**
**Amherst, Massachusetts**

***By invitation of and in cooperation with:***

**American Rivers**

**Massachusetts Executive Office of Environmental Affairs**

**Commonwealth of Massachusetts Riverways Program**



COLLEGE OF ENGINEERING
UNIVERSITY OF WISCONSIN-MADISON
Department of Engineering Professional Development
432 North Lake Street Madison, Wisconsin 53706



THE UNIVERSITY of WISCONSIN MADISON

COLLEGE OF ENGINEERING ■ DEPARTMENT OF ENGINEERING PROFESSIONAL DEVELOPMENT

# Succeeding with a Dam Removal Project

## October 16–18, 2006
## Amherst, Massachusetts

- **Identify key decision points**
- **Implement practical, efficient dam removal approaches**
- **Know how to maximize environmental endpoints**
- **Understand engineering, sediment management and water quality issues**

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CONTINUING EDUCATION UNITS 1.5 CEU

PROFESSIONAL DEVELOPMENT HOURS 15 PDH

# Succeeding with a Dam Removal Project

**October 16–18, 2006 in Amherst, Massachusetts**

**Save time and money!
Inquire about our on-site courses.
Call 800-462-0876 today!**

## Focus on All Aspects of Dam Removal

This practical course will evaluate all aspects of dam removal, including

- the key decision points
- how to remove a dam efficiently and maximize environmental endpoints
- engineering and management issues associated with a range of dam types
- sediment management and water quality issues related to dam removal
- practical approaches to remove both large and small dams

You'll also have the opportunity to consider dam removal case studies and lessons learned from dam removal projects.

Your instructors are experts working in this cutting-edge area. They will share with you key insights and approaches gained from years of experience.

**For Related Course Descriptions**
http://epd.engr.wisc.edu/catalogs/civil.lasso

## Why This Course?

Aging dams have become a critical engineering issue. The American Society of Engineers has graded dams a "D" in its report card on the country's infrastructure. Add in the relicensing issues, the Endangered Species Act, sediment management issues, concerns from the public, property owners and environmentalists, lack of funds, declining safety ratings, and expensive repairs, and you have a complicated design project.

Dam removal issues are particularly timely in areas where attention on restoring fisheries habitat and rivers has brought increasing attention to dams, their useful economic life, and their impacts on water quality and ecological sustainability.

## Course Objectives

Professionals working on dams will gain comprehensive information on dam removal and associated issues. The course will emphasize

- technical tools
- design and construction approaches
- environmental benefits, issues and risks
- sediment management
- social perspectives, and more!

## Intended Audience

This course will benefit

- design engineers
- biologists
- regulatory review professionals
- dam owners
- contracting service personnel
- contractors
- public sector professionals
- planners

## Bring Your Team

Gain maximum value for your organization by attending as a team. If you enroll two or more people, you will receive a fee discount (see enrollment form).

## Outstanding Instructors

Your instructors are highly accomplished educators, consultants, regulators and managers with extensive field experience, broad knowledge of dam removal issues, and demonstrated expertise in instructional settings. Plan to take advantage of their range of knowledge by participating in our class discussions and case studies and by visiting with them during refreshment breaks, lunches and after class.

## Special Course Materials

In addition to the comprehensive course notebook, you will receive the Heinz Center's 2002 book, *Dam Removal: Science and Decision Making*, the Aspen Institute's *Dam Removal: A New Option for a New Century*, American Rivers' report, "Exploring Dam Removal," and a digital copy of American Rivers' "Dam Removal Toolkit."

## Earn Continuing Education Credits

By participating in this course, you will earn 1.5 Continuing Education Units (CEU) or 15 Professional Development Hours (PDH).

## Course Planning Committee

**Patrick Eagan**
University of Wisconsin–Madison

**Brian Graber**
Commonwealth of Massachusetts Riverways Program

**Stephanie Lindloff**
American Rivers

**Joe Rathbun**
Michigan Department of Environmental Quality

**Laura Wildman**
American Rivers

**Enroll online today! epd.engr.wisc.edu**

# Succeeding with a Dam Removal Project

**October 16–18, 2006 in Amherst, Massachusetts**

## Course Outline

### Monday, October 16

**7:30 *Registration***
Murray D. Lincoln Campus Center
2nd Floor Concourse (Reading Room)
1 Campus Center Way
(see map at right)
University of Massachusetts–Amherst
Amherst, Massachusetts

**8:00 *Welcome and Introduction***
*Patrick Eagan PhD, PE*
Program Director/Associate Professor
Department of Engineering Professional Development
University of Wisconsin–Madison

**8:20 *Dam Removal Project Overview***
*Brian Graber*
River Restoration Specialist
Commonwealth of Massachusetts Riverways Program
Boston, Massachusetts

**9:20 *Permitting for Dam Removal in New England***
What's working and what the challenges are
*Jeanine Bonin (invited)*
Director of Water Resources and Environmental Studies
Milone and MacBroom Inc.
Cheshire, Connecticut

**10:40 *Break***

**11:00 *FERC and Dam Removal***
***License Surrender, Decommissioning and Removal***
*Sara Verville*
Counsel
Pierce Atwood
Portland, Maine

**12:00 *Lunch***

**1:00 *Social Components and Funding Sources for Dam Removal: Statewide and Project-Level Approaches***
*Stephanie Lindloff*
Associate Director of Dam Programs (Mid-Atlantic)
American Rivers
Albany, New York

**2:30 *Break***

**2:45 *Wetland Impacts and Dam Removal***
*Mark Carabetta*
Conservation Science Manager
Ontario Nature
Toronto, Ontario

**3:45 *Wetlands and Dams Panel***
*Scott Carney*
Chief, Division of Habitat Management
Pennsylvania Fish and Boat Commission
State College, Pennsylvania
*Tim Purinton*
River Restoration Planner
Commonwealth of Massachusetts Riverways Program
Boston, Massachusetts
*Laura Wildman*
Associate Director of Dam Programs (Northeast)
American Rivers
Glastonbury, Connecticut
*Stephanie Lindloff*
*Mark Carabetta*
*Jeanine Bonin*

**5:15 *Adjournment***

### Tuesday, October 17

**7:30 *Coffee and Conversation***

**8:00 *Sediment Analysis and Management***
*Laura Wildman*

**9:30 *Break***

**9:50 *Sediment Assessment and Management for Dam Removal Projects***
*Joe Rathbun*
Water Quality Specialist
Michigan Department of Environmental Quality
Lansing, Michigan

**11:15 *Sediment Case Study***
*Jim MacBroom*
Vice President
Milone and MacBroom Inc.
Cheshire, Connecticut

**12:00 *Lunch***

**1:00 *The Ecological Effects of Dam Removal***
- Are fish taking advantage of increasing habitat?
- Are fish populations affected?
- Mollusks, other species

*Scott Carney*

**2:30 *Break***

**2:45 *Case Study***
*Jim MacBroom*

**3:30 *Economics and Liability Issues of Dam Removal***
***Sample RFPs***
***Scopes of Work***
*Brian Graber*

**4:45 *Adjournment***

### Wednesday, October 18

**7:30 *Coffee and Conversation***

**8:00 *Historic Preservation and Dam Removal***
*Stephanie Lindloff*

**9:00 *Engineering Removal Techniques for Small Dams***
*Laura Wildman*

**10:00 *Break***

**10:20 *Channel Formation and Dam Removal***
*Jim MacBroom*

**12:00 *Final Adjournment***
(Lunch on your own)

## On-site Courses Save Time & Money

Engineering Professional Development can offer many of our courses:

- At a location of your choice in North America
- At your convenience
- At reduced per-person cost
- Tailored to your needs

To inquire about courses that we can bring to your site, including optimal group size and costs, call 800-462-0876 and ask for Corporate Education Director Carl Vieth (608-263-7424 direct). Or see http://epd.engr.wisc.edu/onsite

## Related Upcoming Courses

For details call toll free 800-462-0876, or check our Web site at http://epd.engr.wisc.edu/catalogs/civil.lasso

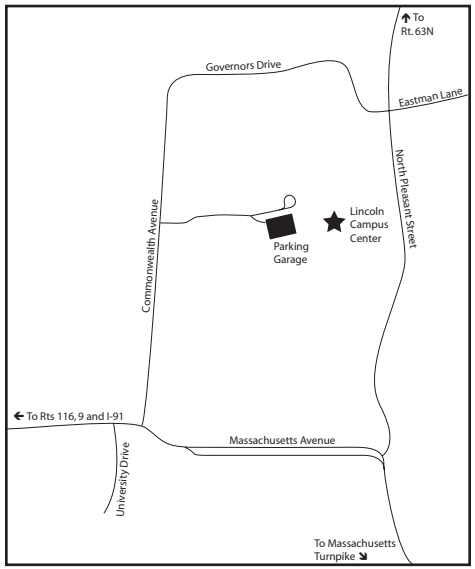
*Designing Bio/Infiltration Best Management Practices for Stormwater Quality Improvement*
September 18–20, 2006, Worcester, MA
Course #H885

November 1–3, 2006, Madison, WI
Course #H886

*Using the Source Loading and Management Model (SLAMM) for Urban Stormwater Management*
November 13–16, 2006, Madison, WI
Course #H893

## Getting to the University of Massachusetts Amherst

Routes 116, 63, 9 and I-91 provide direct access to the campus area. Parking for the Murray D. Lincoln Campus Center is off Commonwealth Avenue. The Campus Center adjoins the parking garage. Please refer to the map below.




## Four Easy Ways to Enroll

**Phone:**
**800-462-0876** or
608-262-1299 (TDD 265-2370)

**Internet:**
http://epd.engr.wisc.edu/

**Mail to:**
Engineering Registration, The Pyle Center
702 Langdon Street, Dept. 107
Madison, Wisconsin 53706

**Fax:**
**800-442-4214** or 608-265-3448

## Need To Know More?

Call toll free **800-462-0876** and ask for

**Program Director:**
Patrick Eagan PhD, PE
eagan@engr.wisc.edu

**Program Associate:**
Diane Lange

Or e-mail **custserv@epd.engr.wisc.edu**

## General Information

**Fee Covers** Course materials and texts, break refreshments, lunches and certificate. Course materials are distributed only to course participants. We do not publish proceedings.

**Cancellation** If you cannot attend, please notify us by October 9, and we will refund your fee. Cancellations received after that date and no-shows are subject to a $150 administrative fee. You may enroll a substitute at any time before the course starts.

**Location** The Murray D. Lincoln Campus Center, University of Massachusetts, 1 Campus Center Way, Amherst, Massachusetts. Detailed location and travel information for the course site is available at http://www.aux.umass.edu/campuscenter/ If you must be contacted during the course, phone messages may be left for you at 413-545-2591.

**Accommodations** We have reserved a block of sleeping rooms ($77 single or double) for course participants at the Quality Inn-Hadley, 237 Russell Street (Route 9), Hadley, Massachusetts. To reserve a room, call 413-584-9816 by September 15 and mention group code 100447 and group name: Dam Removal Project. Room requests made later than September 15 will be subject to availability.

### Course Information

❑ Please enroll me in **Succeeding with a Dam Removal Project Course #H890** October 16–18, 2006 in Amherst, Massachusetts Fee: $995

**Team Discount:** $895 each when 3-5 people enroll from the same organization; $795 each when 6-10 people enroll from the same organization; and $695 each when 11 or more people enroll from the same organization.

❑ I cannot attend at this time. Please send me brochures on future courses.

### Personal Information (Please print clearly.)

Name _____

Title _____

Company _____

Address _____

City/State/Zip _____

Phone (_____) _____ Fax (_____) _____

E-mail _____

### Additional Enrollee

Name _____

Title _____

E-mail _____

### Billing Information

❑ Bill my company ❑ P.O. or check enclosed (Payable in U.S. funds to UW–Madison)

❑ MasterCard ❑ VISA ❑ American Express

Cardholder's Name _____

Card No. _____ Expires _____

**UW#** ❑❑❑

**Important–please enter the 3-digit UW# Code from the mailing label.**

❑ Please check the box if you are a person with a disability and desire special accommodations. A customer service representative will contact you. Requests will be kept confidential.